

## NABILA ISHAQUE IRA

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### EDUCATION

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#### Master of Science in Biotechnology

Department of Biochemistry & Microbiology, North South University  
CGPA: 3.41/4

August 2014  
Dhaka

Thesis: *Relationship of FT<sub>3</sub>, TSH with different stages of differential thyroid cancer (DTC) in Bangladesh*

#### Bachelor of Science in Biochemistry & Biotechnology

Department of Biochemistry & Biotechnology, University of Science & Technology  
CGPA: 3.46/4

December 2011  
Chittagong

### WORK EXPERIENCE

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#### Term Lab Instructor (Biochemistry, Environmental Microbiology,

##### Nutrigenetics & Cell & Molecular Biology-Lab)

Science & Math Program, Asian University for Women

January 2021- present  
Chittagong

- Teach practical part of above-mentioned courses
- Develop syllabus & course content for class

#### Erasmus Research Fellow

Asian University for Women

January 2020-December 2020  
Chittagong

- Developing Nutrigenetics lab course materials
- Selecting and ordering lab equipment and reagents
- Managing the lab component of the course
- Working on the project deliverables
- Organizing pre-meeting discussion with the team
- Attending remote coaching sessions with partner institutions
- Demonstrating mock lab session
- Arranging the logistics for the field trip
- Attending workshops

#### Adjunct Faculty (General Biology, Genes & Genomes & Nutrigenetics, Cell & Molecular Biology-Lab)

Science & Math Program, Asian University for Women

August 2019-May 2020  
Chittagong

- Teach practical part of above-mentioned courses
- Develop syllabus & course content for class

#### Lab Officer (Life Sciences)

Science & Math Program, Asian University for Women

November 2016-August 2019  
Chittagong

- Conduct lab classes for Cell & Molecular Biology, Ecology, Environmental Microbiology and Biology courses
- Oversee senior thesis students and train students in laboratory experiments
- Perform experiments and prepare samples for analysis
- Manage lab, mentor lab staff, oversee lab equipment use, purchase lab supplies and prepare orders
- International NGO based Water & Life project management
- Research Protocol Development & Analysis of data

## **TEACHING**

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**Faculty (Biology & Chemistry, Senior Section)**  
Playpen School

August 2016-October 2016  
Dhaka

- Taught Biology and Chemistry to 30 students from grades 8-12<sup>th</sup>
- Developed question papers and administered examinations for grades 8-12<sup>th</sup>

### **Graduate Teaching Assistant**

Department of Biochemistry & Microbiology, North South University

May 2013- January 2014  
Dhaka

- Assisted faculty with student advising and prepared lecture and research notes
- Provided tutorial sessions for students requiring additional help
- Administered examinations and graded copies and lab reports

## **RESEARCH SKILLS**

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- **Biochemistry:** Biochemical assays for quantification of carbohydrate, protein and lipid in biological samples
- **Immunology:** Agglutination assays, ELISA, RIA
- **Cell biology:** Mammalian and bacterial cell culture, cell counting, cell line maintenance, transfection with Plasmid
- **Molecular biology:** Genomic and plasmid DNA isolation, RNA isolation, protein extraction, PCR, RT PCR, agarose gel electrophoresis, SDS-PAGE, Western blot, Northern Blot, Southern Blot
- **Microbiology:** Media optimization, bacteria isolation, bacterium identification using morphological and biochemical tests, preservation techniques, bacterial growth curve analysis
- **Bioinformatics:** Online analysis tools and bioinformatics databases, BLAST, primer design, preparation of phylogenetic trees
- **Microscopy:** Light microscopy
- **Statistics & Computational:** Statistical analysis using SPSS, MS Office applications, EndNote

## **ON GOING RESEARCH**

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1. Antibiotic Resistance of Single Satellite Colonies in Hospitals in Chittagong
2. Analyzing the effects of formalin on the behavior and physical changes in fish

## **PUBLICATIONS**

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1. Antibiotic Resistance Bacteria in Tertiary Hospitals in Chittagong, Bangladesh  
*International Journal of Scientific Engineering and Science (IJSES) – (Online) ISSN: 2456-7361 (DOI: 10.5281/zenodo.3238383), Volume 3 Issue 5, May 2019*
2. “Quantification of DNA damage due to UV irradiation and Formalin”, *International Journal of Advances in Science, Engineering & Technology*, Volume 5, Issue 3, Special Issue 2, September 2017
3. “A Bioinformatics Approach for Homology Modelling and Binding Site Identification of Triosephosphate Isomerase from Plasmodium Falciparum 3D7”, *Journal of Young Pharmacist*, Vol.4, Issue 4, Oct-Dec 2012

## **TRAININGS**

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1. **Workshop on “DNA Barcoding using modern molecular tools”** organized by Poultry Research and Training Centre (PRTC) in collaboration with Bangladesh Barcode of Life (BanglaBol), Chittagong Veterinary and Animal Science University, 4-6 March 2017.
2. **3<sup>rd</sup> National Congress**, organized by Young Biotechnologist of Bangladesh and Department of Genetic Engineering & Biotechnology, Shahjalal University of Science & Technology, 2012
3. **Workshop on “Bioinformatics, Tools of Molecular Biotechnology & Research Method”** organized by Young Biotechnologists of Bangladesh, 2011

## **LANGUAGES & OTHER INTERESTS**

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- Bengali, English and Hindi (conversational)
- Trained in classical Bengali music, painting, reading and travelling

**REFERENCE AVAILABLE UPON REQUEST**